

Printing date 07/31/2016

Reviewed on 07/31/2016

1 Identification

- · Product name
- Trade name: Potassium selenite
- · Item number: 93-1971
- · CAS Number:
- 10431-47-7 · EC number:
- 233-909-8
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way
- NEWBURYPORT, MA 01950 USA info@strem.com
- · Information department: Technical Department
- Emergency telephone number: EMERGENCY: CHEMTREC: +1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

2 Hazard(s) identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed. Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

· Label elements

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: Potassium selenite

· Hazard statements

H300+H330 Fatal if swallowed or if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

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. Procautionary	(Contd. of page 1)
•	statements
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification s	ystem:
$\cdot NFPA$ ratings ((scale 0 - 4)
U	$\begin{aligned} &Health = 4\\ &Fire = 0\\ &Reactivity = 0 \end{aligned}$
• HMIS-ratings ((scale 0 - 4)
	Health = 3 Fire = 0 Reactivity = 0
• Other hazards	
· Results of PBT	and vPvB assessment
· PBT: Not appli	
• vPvB: Not appl	
• vPvB: Not appl	
	/information on ingredients
3 Composition	/information on ingredients acterization: Substances
3 Composition • Chemical chard • CAS No. Descr	/information on ingredients acterization: Substances iption
3 Composition • Chemical chara • CAS No. Descr 10431-47-7 Poi	/information on ingredients acterization: Substances iption tassium selenite
3 Composition • Chemical chard • CAS No. Descr	/information on ingredients acterization: Substances iption tassium selenite number(s)

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; immediately call for medical help.
- Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- *CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.* • Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- · Environmental precautions: No special measures required.
- *Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.*
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

· Handling:

- **Precautions for safe handling** Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

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· Exposure controls

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- Personal protective equipment:
 General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

Information on basic physical and General Information Appearance:	chemical properties	
Form:	Powder	
Color:	White	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	875 dec °C (1607 dec °F) no data °C	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	

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Ignition temperature:	
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	no data hPa
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Insoluble.
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	0.0 %
VOC content:	0.0 g/l / 0.00 lb/gl
Solids content:	100.0 %
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

·NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

• Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, IMDG, IATA	UN2630	
UN proper shipping name		
DOT, IATA	Selenates	
IMDG	SELENATES	
Transport hazard class(es)		
DOT		
TOXIC		
Class	6.1 Toxic substances	

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· Label	6.1
·IMDG	
6 A A A A A A A A A A A A A A A A A A A	
· Class	6
· Label	6.1
·IATA	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group · DOT, IMDG, IATA	Ι
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· EMS Number:	F-A,S-A
· Stowage Category	E
• Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 kg
\sim	On cargo aircraft only: 50 kg
· IMDG	
· Limited quantities (LQ)	0
\cdot Excepted quantities (EQ)	Code: E5
	Maximum net quantity per inner packaging: 1 g
	Maximum net quantity per outer packaging: 300 g
· UN ''Model Regulation'':	UN 2630 SELENATES, 6.1, I

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

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TSCA (Toxic	Substances Control Act):
Substance is li	isted.
Proposition 6:	5
Chemicals kn	own to cause cancer:
Substance is n	not listed.
Chemicals kn	own to cause reproductive toxicity for females:
Substance is n	not listed.
Chemicals kn	own to cause reproductive toxicity for males:
Substance is n	
Chemicals kn	own to cause developmental toxicity:
Substance is n	
<u>C</u>	
Carcinogenic	categories imental Protection Agency)
Substance is n	
	old Limit Value established by ACGIH)
Substance is n	ot listed.
	National Institute for Occupational Safety and Health)
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Substance is n GHS label ele The substance Hazard pictog GHS06 GH Signal word L Hazard-detern Potassium sela H300+H330 H H341 S H373 N Precautionary P260 P280 P301+P310	The forments is classified and labeled according to the Globally Harmonized System (GHS). grams is classified and labeled according to the Globally Harmonized System (GHS). grams is classified and labeled according to the Globally Harmonized System (GHS). grams is classified and labeled according to the Globally Harmonized System (GHS). is classified according to the Globally Harmonized System (GHS). is classified and labeled according to the Globally Harmonized System (GHS). is classified according to the Globally Harmonized System (GHS). is classified and labeled according to the Globally Harmonized System (GHS). is classified and labeled according to the Globally Harmonized System (GHS). is classified according to the Global to the Global to the Global to the formet of the formet according to the formet according
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16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Department issuing SDS: Technical Department. · Contact: Technical Director · Date of preparation / last revision 07/31/2016 / -· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 2: Acute toxicity, Hazard Category 2 Muta. 2: Germ cell mutagenicity, Hazard Category 2 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

